T0502T* T8690303T

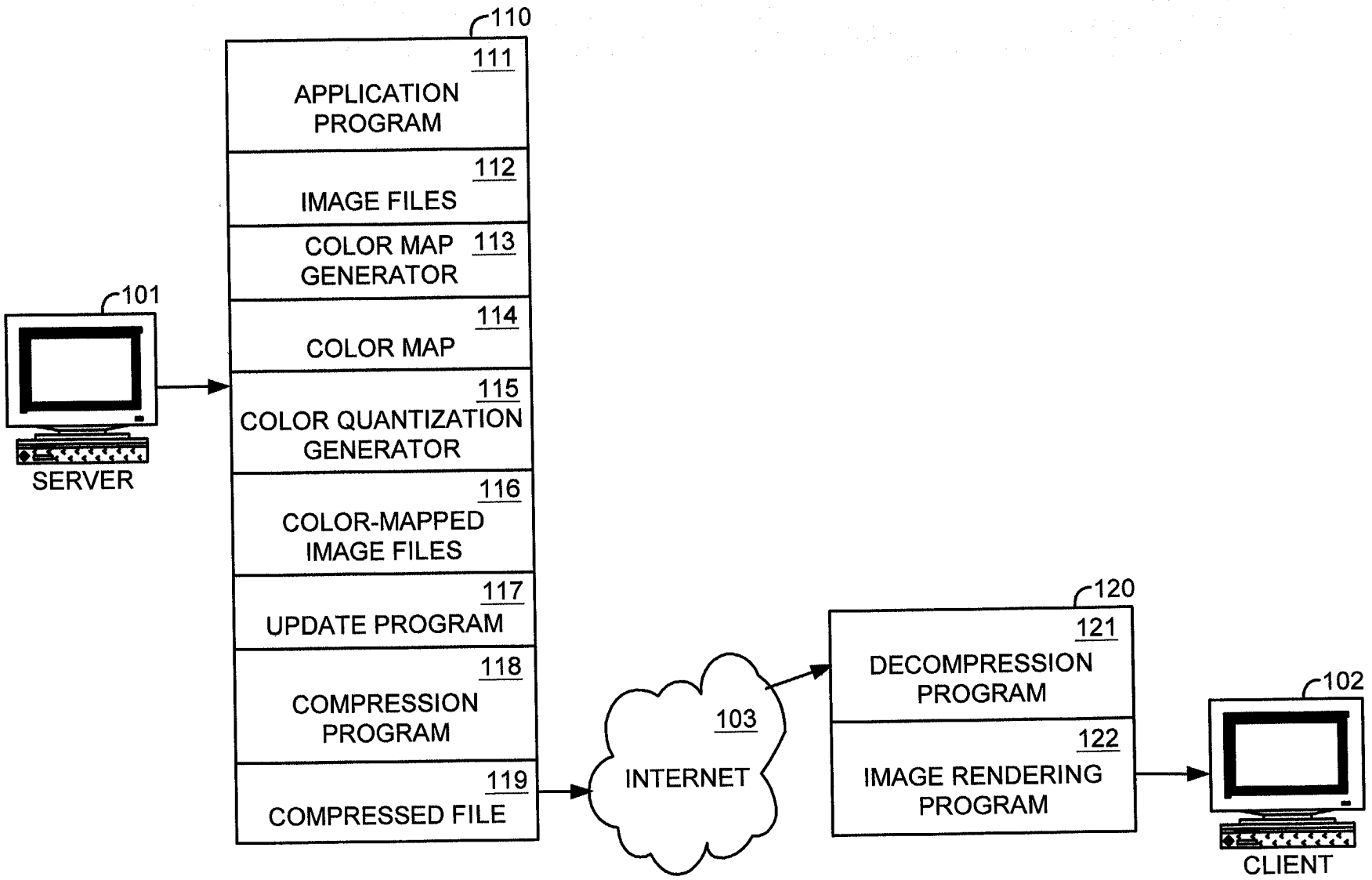

fig.1

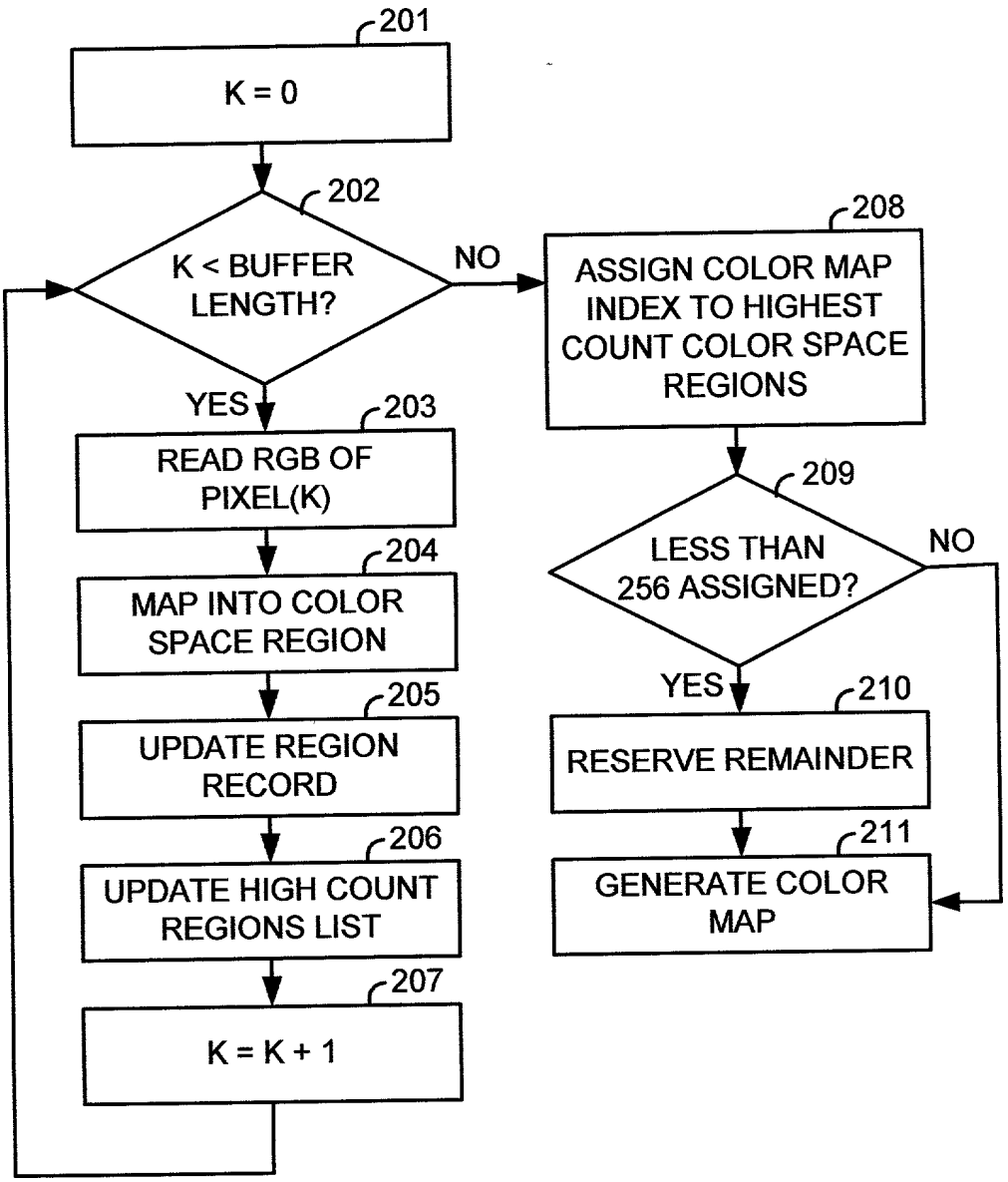
201
K = 0
202
K < BUFFER LENGTH?
NO
YES
203
READ RGB OF PIXEL(K)
204
MAP INTO COLOR SPACE REGION
205
UPDATE REGION RECORD
206
UPDATE HIGH COUNT REGIONS LIST
207
K = K + 1
208
ASSIGN COLOR MAP INDEX TO HIGHEST COUNT COLOR SPACE REGIONS
209
LESS THAN 256 ASSIGNED?
NO
YES
210
RESERVE REMAINDER
211
GENERATE COLOR MAP

fig.2

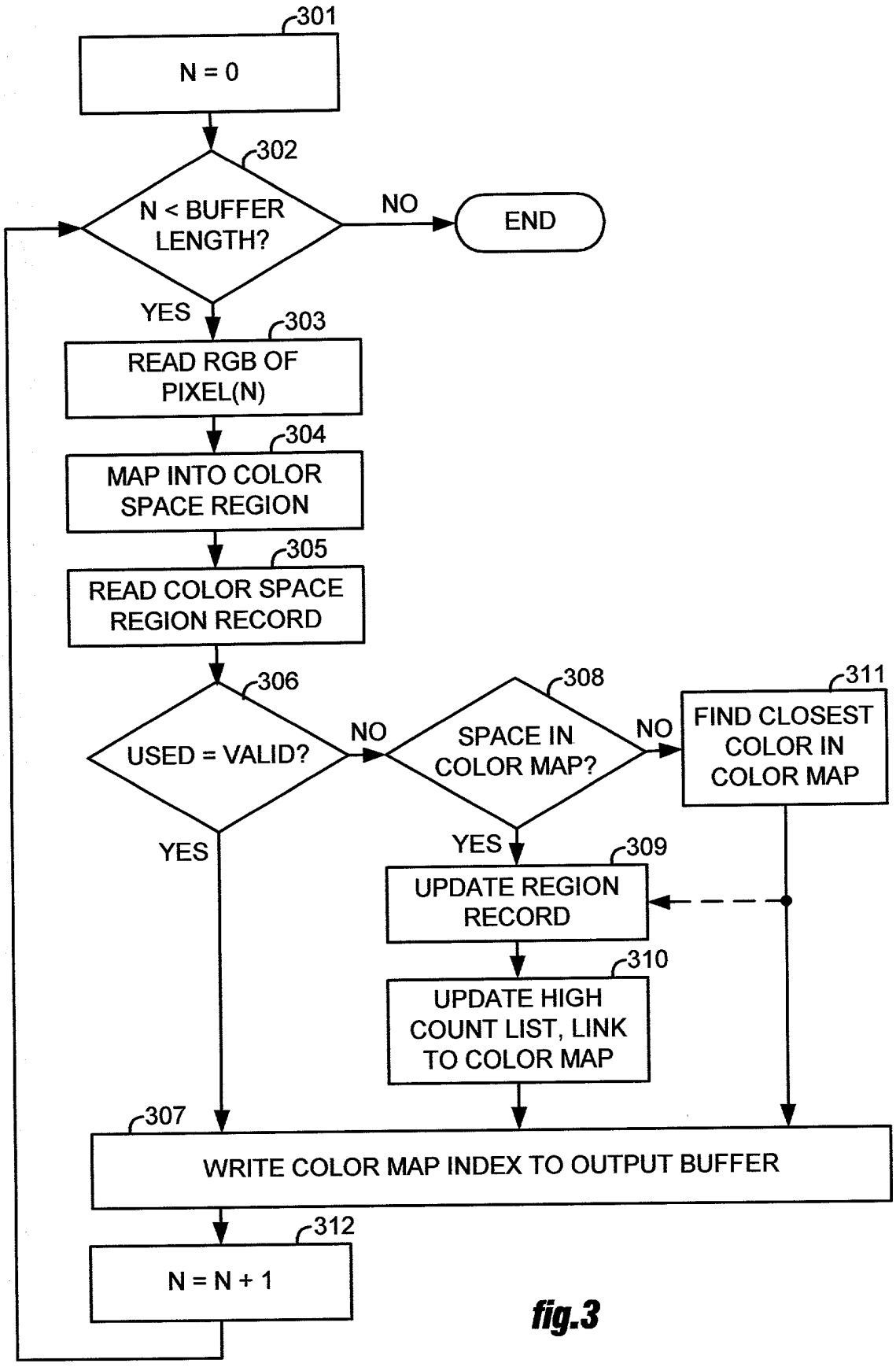
301
N = 0
302
N < BUFFER LENGTH?
NO
END
YES
303
READ RGB OF PIXEL(N)
304
MAP INTO COLOR SPACE REGION
305
READ COLOR SPACE REGION RECORD
306
USED = VALID?
NO
308
SPACE IN COLOR MAP?
NO
311
FIND CLOSEST COLOR IN COLOR MAP
YES
YES
309
UPDATE REGION RECORD
310
UPDATE HIGH COUNT LIST, LINK TO COLOR MAP
307
WRITE COLOR MAP INDEX TO OUTPUT BUFFER
312
N = N + 1

fig.3

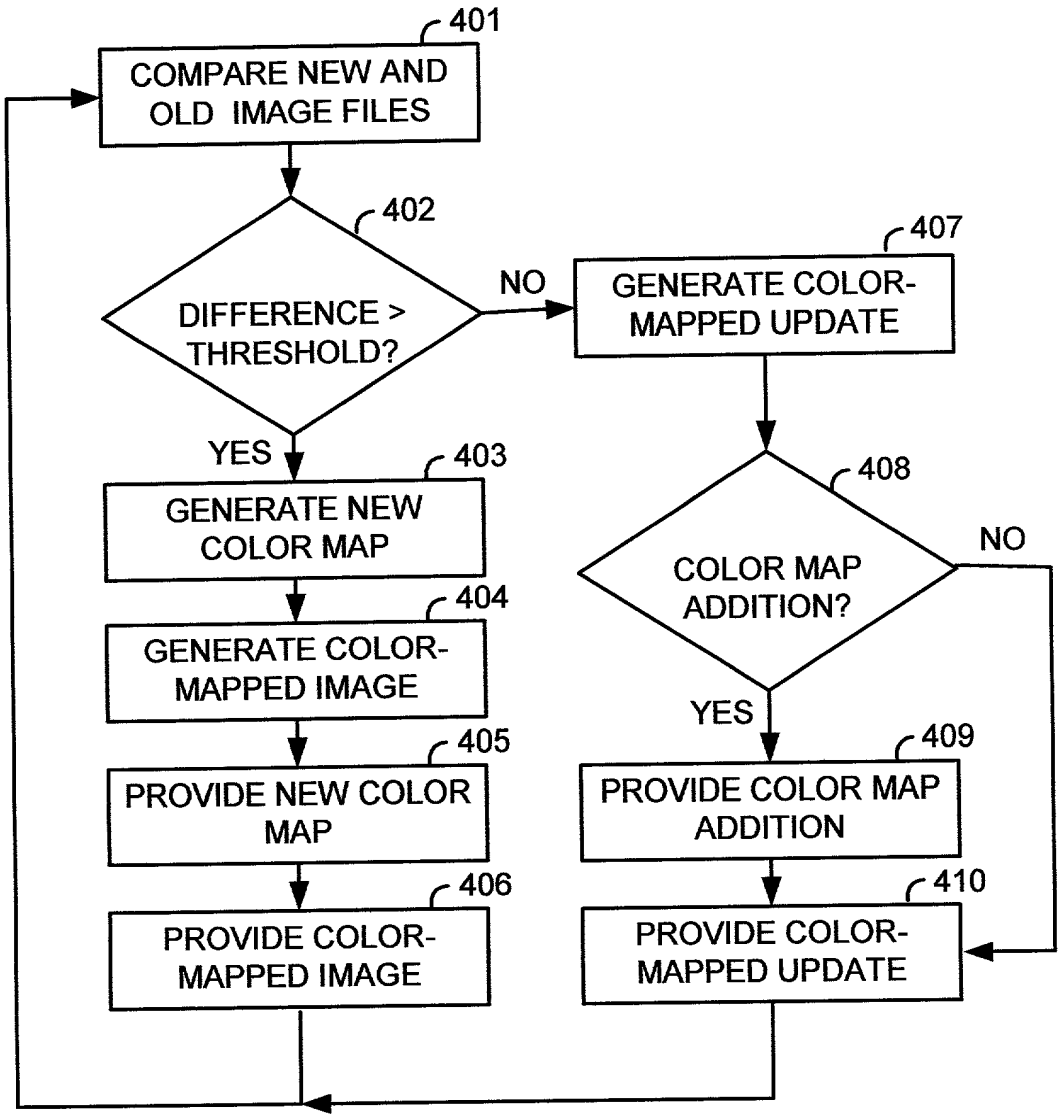
401
COMPARE NEW AND OLD IMAGE FILES
402
DIFFERENCE > THRESHOLD?
NO
407
GENERATE COLOR-MAPPED UPDATE
YES
403
GENERATE NEW COLOR MAP
404
GENERATE COLOR-MAPPED IMAGE
405
PROVIDE NEW COLOR MAP
406
PROVIDE COLOR-MAPPED IMAGE
408
COLOR MAP ADDITION?
NO
YES
409
PROVIDE COLOR MAP ADDITION
410
PROVIDE COLOR-MAPPED UPDATE

fig.4

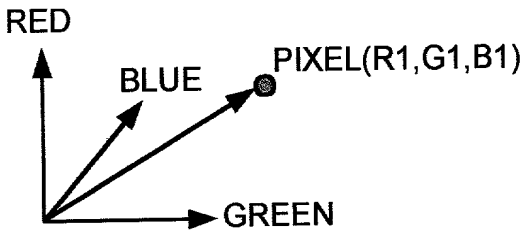

fig.5

COLOR DEPTH (BITS/PIXEL)	# OF COLORS	COMMENTS
32	4294967296	TRUE COLOR
24	16777216	TRUE COLOR
16	65536	HIGH COLOR
8	256	USES COLOR MAP
1	2	BLACK & WHITE

fig.6

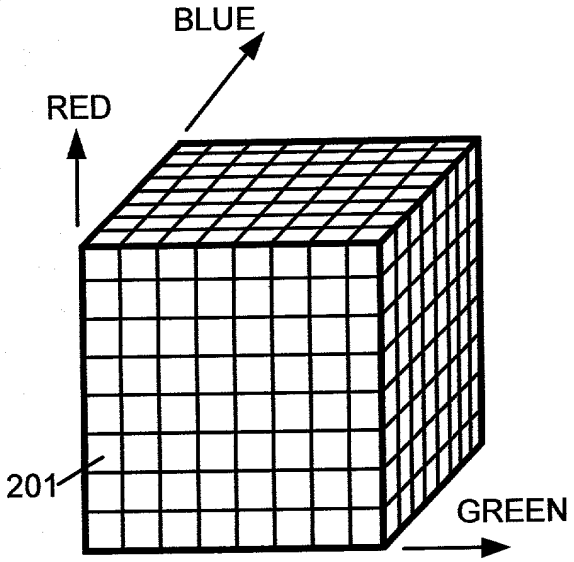

fig.8

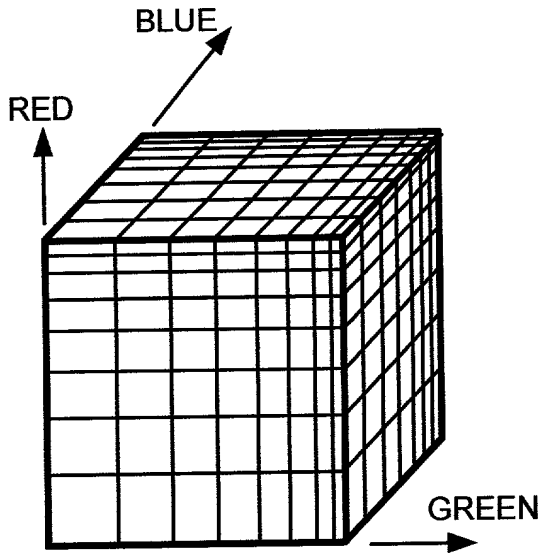

fig.9

INDEX#	TRUE COLOR
255	HIGHEST COUNT TRUE COLOR
254	2ND HIGHEST COUNT TRUE COLOR
253	3RD HIGHEST COUNT TRUE COLOR
...	...
000	256TH HIGHEST COUNT TRUE COLOR

fig.11

23	22	21	20	19	18	17	16	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
RED								GREEN							BLUE								

fig.7

COLOR SPACE #	COUNT	REDSUM	GREENSUM	BLUESUM	USED	INDEX#

fig.10